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U.S. Department of Agriculture  
Bureau of Plant Industry  
Washington, D.C. 20240

DENDROBIUM LISTING

#113

Dendrobiums are a large and varied genus of plants with spectacular flowers of varying hues and lovely color combinations. The species are found throughout the East from Ceylon through India, Burma, Assam, Maylasia, parts of China and Japan to the Philippines and Australia.

The majority are easily grown and are free-flowering with excellent keeping quality, especially when a change of season occurs or when climatic conditions allow for temperature variations during their ripening or resting periods.

Dendrobiums are divided into two cultural groups - the Nobile and Phalaenopsis sections.

CULTURE: The general requirements of Dendrobiums are periods of growth and rest. When growing, a cattleya temperature with plenty of humidity, moderate quantities of water, overhead syringing and light are required. As the new season's growths are completed, start ripening them off by cutting down on pot watering, continuing the overhead syringing until the flower buds appear, at which time increase the watering again. During this ripening period it is beneficial to move the plants cooler and lighter if possible. This ripening is of prime importance for best flowering results, but should not be so severe as to shrivel the bulbs.

The Dendrobium Phalaenopsis section will do best in cattleya temperature with the resting period shorter.

All of the Nobile section will do well hanging and this is especially true through the resting or checking periods.

PROPAGATION: Dendrobiums are raised from seed and plant stock can also be increased by dividing the plants at the rhizomes. They sometimes have a tendency to grow offshoots from the pseudobulbs which, when rooted, may be cut off and potted. Old pseudobulbs can sometimes be cut into sections between the nodes, leaving two nodes to each section and laid horizontally on sphagnum moss or Vermiculite, covered over, placed in a warm, moist atmosphere and little plantlets will start at the nodes.

POTTING: Pot in a good, medium grade of Osmunda fibre as small as possible, allowing for a two year growth period. For best results pot the Nobile section soon after flowering. The Phalaenopsis section should be repotted when the new growth reaches a height of two to three inches.

FEEDING: Dendrobiums respond beautifully to feeding and we recommend Wilson's Orchid Fertilizer, a 10-10-10 developed by Dr. O. W. Davidson of the New Jersey Experiment Station at Rutgers University.

GRAVEL CULTURE: All of the Dendrobiums do very well potted in gravel and again we recommend the above Orchid Fertilizer used as directed for gravel culture. In gravel potting use larger sizes of pots and a  $\frac{1}{4}$ " granite gravel.

We grow our Dendrobiums of the Nobile section in a Cymbidium house with a high light intensity of about 75% total light. We use a light weave green 18 x 14 Lumite Horticultural Shade Cloth of a .015 mil. filament with a light transmission factor of close to 75% on the outside of the clear glass, with no other shading from March through October. This, together with a feeding program as well as under-the-bench humidity system of our special H-261 nozzle tips, plus adequate top and bottom ventilation, results in exceptionally fine growth and flowering with some large plants producing over 100 flowers measuring up to 4 inches across. At the show of buds we move some into a warmer house and flower them for Christmas, New Years and January. The balance left in the cool house flower in February and March. In addition to the following listing of flowering size plants, we have smaller plants in established divisions or offshoots, a year or two from flowering, which are also listed.

Every collection should have some plants of the beautiful and showy Dendrobium.

This listing cancels all previous Dendrobium offerings.



AGGREGATUM MAJUS - India - Spring and various.

Dwarf habit. Slender, drooping spikes bearing 7 to 15 beautiful flowers about  $\frac{1}{2}$ " across with orange lip. Requires a long rest.....\$7.50 to 15.00

APOLLO GRANDIFLORUM - (Ainsworthii x N. Pulcherrimum) Spring

Fine, large, dark flowers.....\$10.00

ASHWORTHII - New Guinea - Winter

Bulbs 12" to 24", flowers cream-white with purple in lip.....\$7.50 to 15.00

AUSTINII - (Ainsworthii x Cybele) Nobileus - Winter and Spring

A very fine, dark Dendrobium of the Nobile section.....\$10.00 to 20.00

BIGIBBUM - North Australia - Autumn and Winter

Resembles D. Phalaenopsis in growth with arching or erect terminal flower spikes. 5 to 20 flowers as long as the bulbs. Flowers up to 2" in diameter, magenta purple with white crest.....\$7.50 to 15.00

BUTTERFLY - (Ainsworthii x Chessingtonense) Winter and Spring

Nobile section - fine, light yellow coloring and a brown disk in lip....\$15.00

CALCEOLUS - India - Synonymous with Moschatum - Summer and Fall

Long, stem like, erect bulbs, 3' to 6' with pendent racemes from near the top of the stems. 5 to 10 large flowers, 3" to 4" across. Yellowish tinged with rose, a yellow lip, darker at the base with 2 black-purple eyes. Musk scented. A very interesting and showy Dendrobium but not as good a keeper as some..\$7.50 to 10.00

CEYLON GLORY X AUREUM - Winter and Spring

A lovely new yellow hybrid of the Nobile type. A good keeper, with from light to deep yellow sepals and petals and a beautiful golden brown blotch in the throat. ....\$10.00 to 20.00  
Tops (offshoots) well rooted, to flower in 1-2 years.....\$3.50 to 7.50

CHESSINGTONENSE - (Aurium x Wiganae) Winter and Spring- Nobile type

Pale yellow sepals and petals with brown disk in the lip.....\$7.50 to 15.00

CHRYSOLOXUM - (Moulmein) Spring

Habit of flowering resembles a bunch of grapes. 7 to 15 flowered, about 2" across, rich golden-yellow, lip with deeper orange disk. Heavy, club shaped bulbs 6" to 12" with flowers in apical, lateral spikes.....\$10.00 to 20.00

CONSTANCE WRIGLEY - (Lady Coleman x Plumptonense) Winter and Spring

Fine, large, dark with deeper markings of tips of sepals and petals; very dark lip with gold eyes. Broad sepals and petals, flowers to 4" across....\$15.00 to 25.00

CONSTANCE WRIGLEY X ROMAELE - Winter and Spring - Nobile type

Bulbs 18" to 3' high; large, dark, well shaped flowers; fast, good grower.....\$15.00 to 25.00

CRANBROOK - (No cross record) Spring

A good, well shaped, dark Dendrobium.....\$15.00

CYBELE - (Findleyanum x Nobile) Spring

Good contrasting colors.....\$10.00

CYBELE VAR. ALTEN HOUSE - Winter and Spring

A fine type of the above.....\$20.00

EURYALUS VAR. RUBENS - (Ainsworthii x Nobile) Spring

A very fine, deep colored hybrid.....\$20.00

FIMBRIATUM - (Burma) Spring and various

Stems 2' to 4' high, arching racemes from top part, 3 to 12 floweres. 2" to 3" across with good, rich, orange-yellow color.....\$10.00 to 20.00

GATON MONARCH - (Lady Coleman x Nobile var. Harefield Hall) Spring

A very fine, large, dark Dendrobium of the Nobile section.....\$10.00 to 20.00

GATON SUNRAY - (Dowhousianum Luteum x Illustre) Various

Habit of growth as in D. Phalaenopsis except the bulbs are heavier, sometimes reaching a height of 40" with the drooping flower racemes from near the top of the bulb; beautiful, rich, very heavily textured yellow, slightly cup shaped with deep brown-purple blotch in lip. Spikes from 3 to 7 flowered.....\$15.00 to 20.00

LEONIE - Winter and Spring

A fine, large, dark flower of the Nobile section.....\$15.00

LOUIS BLERIOT - (Phalaenopsis Schroederiana x Superbiens) Fall, Winter, Spring, var.

Unquestionably the finest of the spray types with flowers resembling D. Phalaenopsis Schroederiana in shape but with better, richer solid colorings and very long lasting qualities. Growth and habit similar to D. Phalaenopsis. Will keep in perfect flower condition from 6 to 8 weeks, often longer.....\$15.00 to 35.00  
Tops - (offshoots) well rooted to flower 2-3 years.....\$5.00 to 10.00

LOUIS BLERIOT F.C.C., R.H.S. - Fall, Winter, Spring and various

We have one plant available of this famous F.C.C. variety.....\$50.00

MERLIN - (Nobile x Queen of Gatton) Spring

Fine, large dark flowers, yellow eyes and lip.....\$10.00 to 25.00

MOSCHATUM - (Burma, India, etc.) Summer and Spring

Erect stems 4' to 6' high, flower racemes from near the tips; 5 to 15 flowered, large, yellow tinged with rose, yellow lip with 2 black-purple blotches, 4" to 5" across. Not as good a keeper as the majority.....\$7.50 to 10.00

MOSCHATUM VAR. CUPREUM - (India) Summer - RARE

Flowers apricot yellow, not as good a keeper as the majority.....\$25.00

MOSCHATUM X NOBILE - Late Spring

A most unusual and showy hybrid with peach shadings on white and ivory background; lip with very dark blotches; measure up to 3½"-4" across. Excellent keeper, will flower as late as May and June. Heavy substance.....\$10.00 to 15.00  
Tops - (offshoots) well rooted, to flower 2-3 years.....\$5.00 to 7.50

NOBILE - India and China - Winter and Spring

Nobile and its hybrids are the most popular and useful of all Dendrobiums. Flower in twos and threes from the nodes along the bulbs, variable, and showy, ranging from pure whites to deep rose purples, the type usually rose purple on white background. Lip deeper with dark crimson blotch in throat.....\$5.00 to 10.00  
Tops (offshoots) well rooted, to flower 2-3 years.....\$2.50 to 5.00

NOBILE - Several fine, selected types - Winter and Spring.....\$10.00 to 15.00

NOBILE VAR. ALBUM - Winter and Spring

White sepals and petals, lip with purple disk.....\$10.00 to 15.00

NOBILE VAR. AMESIAE - Winter and Spring

Large flowers, white with maroon disk in lip.....\$10.00 to 15.00

NOBILE VAR. ASHBURTONII - Winter and Spring

Flowers near white, tinged at tips of sepals and petals with some color in the lip .....\$10.00 to 15.00

NOBILE VAR. BALLIANUM - Winter and Spring

White with faint pink and rose; pink on disk of lip.....\$10.00 to 20.00

NOBILE VAR. BERKLEY - Winter and Spring - very distinct type.....\$10.00 to 15.00

NOBILE VAR. COOKSONI - Winter and Spring

Most attractive and distinct type with white background, slightly flushed with rose and heavy deep purple blotches at base of petals; throat of lip same..\$10.00 to 20.00

NOBILE VAR. NOBILIUS - Winter and Spring

A fine type with rich colorings.....\$10.00 to 15.00

NOBILE VAR. RONAELE - Winter and Spring

A distinct, fine form with large, well shaped flowers; spreading, highly-colored lip.....\$15.00 to 25.00

PAMELA - (Austinii x Gaton Monarch) Spring - Nobile type

A very fine, large, dark, well shaped flower.....\$15.00 to 20.00

PHALAEOPSIS SCHROEDERIANA - (New Guinea) Autumn, Spring and various

One of the most popular and showy of all the cane type Dendrobiums. Habit and flowers larger than in the type. Very variable, ranging from pure white through deep purples. Erect stems, 18" to 36" high, terminal spikes 12" to 24" long, with up to 20 flowers on a spike, each about 3" across.....\$5.00 to 15.00

PIERARDI - (India) Spring

Pendent stems 18" to 36" long, flowers about 2" across, flowers from the nodes. Delicately colored, white suffused with rose, lip yellowish veined with rose-purple.....\$10.00 to 20.00

PRIMULINUM VAR. SUMMIT - (Burma) Winter and Spring

A superior form, pendulous stems to 20" long, with short stemmed flowers, usually in pairs, from the depressions on the stem nodes. Flowers 2" to 3", pale rose suffused with light purple and an open, spreading lip of primrose yellow streaked with crimson at the base.....\$15.00 to 25.00

RENOWN - (Gaton Monarch x Melanodiscus) Winter and Spring - Nobile type

Fine, large, dark flowers with better shape.....\$15.00 to 20.00

RONAELE - (Merlin x Wardianum) Winter and Spring

The finest hybrid introduction in the colored form. Usually large and strong growing with stems sometimes exceeding 30"; very free flowering, flowers often up to 4" across, with a very wide range of color from waxy white petals tipped with shades of purple to intense, dark petals with unusually well defined lip; characteristic yellow Wardianum disks and deeper basal colorings. Every collection should have some Ronaele.....\$10.00 to 35.00

RONAELE X AUSTINII - Winter and Spring

A dark, well shaped hybrid with excellent substance; exhibition quality and a plant that has good breeding possibilities.....\$15.00 to 35.00

RONAELE X CONSTANCE WRIGLEY - Winter and Spring

See reverse cross for description.....\$15.00 to 25.00

SANDERS CRIMSON - (Schroederianum x Laurinum) Fall, Winter, Spring and various

Limited stock. Fine, popular cross of cane type Dendrobium; heavy grower, free flowering. Deep, rich colorings.....\$35.00 to 50.00

SECUNDUM - Maylaya - Autumn and Winter - Very unusual type

Flowers rose purple, lip orange yellow. Small.....\$10.00 to 15.00

SUPERBIENS - (North Australia) Autumn

Resembling D. Phalaenopsis but with more substance to the flowers. Rich crimson purple. Has very large canes with flowers slightly smaller than D. Phalaenopsis with undulated sepals and petals.....\$7.50 to 15.00

SUPERBUM - (Philippines) Spring

Pendent stems, often 5' long, flowering in twos and threes from the stem nodes with large 3" to 4" flowers; very fragrant; lilac purple coloring in the flowers with the lip a deeper blood purple.....\$7.50 to 15.00

SUPERBUM DEAREI - (Philippines) Spring RARE

Plant description and size of flower same as in the type, with the exception that in Dearei the plant is not as heavy a grower and the flowers are a glistening pure white.....\$15.00 to 35.00

THRYSIFLORUM - (Burma) Spring

One of the showiest of all. Flowers almost 2" across, set closely in pendulous trusses. Sepals and petals white, sometimes flushed pink. Lip golden-orange...  
.....\$10.00 to 20.00

THWAITESAE VEITCH'S VARIETY - Spring

A few plants of selected types. One of the most colorful, sepals and petals ranging from clear yellow through orange shadings with deep brown disk on the lip and throat.....\$15.00 to 25.00  
Tops (offshoots) well established, to flower 1-3 years....\$5.00 to 10.00

THWAITESAE VEITCH'S VARIETY X AUREUM - Spring

A fine new yellow hybrid of good growing qualities with color not as rich as in Thwaitesae, running more to the yellows with brown disk in lip and throat.....  
.....\$15.00 to 25.00  
Tops (offshoots) well established, to flower in 1-3 years...\$5.00 to 10.00

Terms are cash with order or net 30 days when credit is established. All plants are shipped F.O.B., Summit, N. J.

This listing cancels all previous Dendrobium listings.

LAGER & HURRELL

SUMMIT, NEW JERSEY

Established 1896